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SEQUENCE LISTING

<110> Lee, Richard T.

<120> CARDIOVASCULAR DISEASE DIAGNOSTIC AND THERAPEUTIC TARGETS

<130> B0801/7231/ERP/KA

<150> US 60/247,457

<151> 2000-11-09

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<222> (1)...(2586)

<223> Fit-1S

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1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000 16000 17000 18000 19000 20000 21000 22000 23000 24000 25000 26000 27000 28000 29000 30000 31000 32000 33000 34000 35000 36000 37000 38000 39000 40000 41000 42000 43000 44000 45000 46000 47000 48000 49000 50000 51000 52000 53000 54000 55000 56000 57000 58000 59000 60000 61000 62000 63000 64000 65000 66000 67000 68000 69000 70000 71000 72000 73000 74000 75000 76000 77000 78000 79000 80000 81000 82000 83000 84000 85000 86000 87000 88000 89000 90000 91000 92000 93000 94000 95000 96000 97000 98000 99000 100000

<210> 4  
 <211> 566  
 <212> PRT  
 <213> Rattus norvegicus

<220>  
 <221> PEPTIDE  
 <222> (1)...(566)  
 <223> Fit-1M

<400> 4

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		20						25				30			
Leu	Glu	Asn	Glu	Ala	Leu	Ile	Val	Arg	Cys	Pro	Gln	Arg	Gly	Gly	Ala
	35					40					45				
Ile	Asn	Pro	Val	Glu	Trp	Tyr	Tyr	Ser	Asn	Thr	Asn	Glu	Arg	Ile	Pro
	50					55				60					
Thr	Gln	Lys	Arg	Asn	Arg	Ile	Phe	Val	Ser	Arg	Asp	Arg	Leu	Lys	Phe
65				70					75					80	
Leu	Pro	Ala	Lys	Val	Glu	Asp	Ser	Gly	Ile	Tyr	Thr	Cys	Val	Ile	Arg
			85					90					95		
Ser	Pro	Glu	Ser	Ile	Lys	Thr	Gly	Ser	Leu	Asn	Val	Thr	Ile	Tyr	Lys
		100						105					110		
Arg	Pro	Pro	Asn	Cys	Lys	Ile	Pro	Asp	Tyr	Met	Met	Tyr	Ser	Thr	Val
	115					120						125			
Asp	Gly	Ser	Asp	Lys	Asn	Ser	Lys	Ile	Thr	Cys	Pro	Thr	Ile	Ala	Leu
	130				135						140				
Tyr	Asn	Trp	Thr	Ala	Pro	Val	Gln	Trp	Phe	Lys	Asn	Cys	Lys	Ala	Leu
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Gln	Gly	Pro	Arg	Phe	Arg	Ala	His	Met	Ser	Tyr	Leu	Phe	Ile	Asp	Lys
			165					170					175		
Val	Ser	His	Val	Asp	Glu	Gly	Asp	Tyr	Thr	Cys	Arg	Phe	Thr	His	Thr
		180						185					190		
Glu	Asn	Gly	Thr	Asn	Tyr	Ile	Val	Thr	Ala	Thr	Arg	Ser	Phe	Thr	Val
	195					200					205				
Glu	Glu	Lys	Gly	Phe	Ser	Thr	Phe	Pro	Val	Ile	Thr	Asn	Pro	Pro	His
	210				215						220				
Asn	Tyr	Thr	Val	Glu	Val	Glu	Ile	Gly	Lys	Thr	Ala	Asn	Ile	Ala	Cys
225				230						235				240	
Ser	Ala	Cys	Phe	Gly	Thr	Ala	Ser	Gln	Phe	Val	Ala	Val	Leu	Trp	Gln
			245					250					255		
Ile	Asn	Lys	Thr	Arg	Ile	Gly	Ser	Phe	Gly	Lys	Ala	Arg	Ile	Gln	Glu
	260					265						270			
Glu	Lys	Gly	Pro	Asn	Lys	Ser	Ser	Ser	Asn	Gly	Met	Ile	Cys	Leu	Thr
	275					280					285				
Ser	Leu	Leu	Arg	Ile	Thr	Gly	Val	Thr	Asp	Lys	Asp	Phe	Ser	Leu	Lys
	290					295					300				
Tyr	Asp	Cys	Val	Ala	Met	Asn	His	His	Gly	Val	Ile	Arg	His	Pro	Val
305				310					315					320	
Arg	Leu	Arg	Arg	Lys	Gln	Pro	Ile	Asp	His	Gln	Ser	Thr	Tyr	Tyr	Ile
			325					330					335		
Val	Ala	Gly	Cys	Ser	Leu	Leu	Leu	Met	Phe	Ile	Asn	Val	Leu	Val	Ile
		340						345				350			
Val	Leu	Lys	Val	Phe	Trp	Ile	Glu	Val	Ala	Leu	Phe	Trp	Arg	Asp	Ile

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Met Ala Pro Tyr Lys Thr Gln Asn Asp Gly Lys Leu Tyr Asp Ala Tyr
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Ile Ile Tyr Pro Arg Val Phe Arg Gly Ser Ala Ala Gly Thr Gly Ser
 385              390              395              400
Val Glu Tyr Phe Val His Tyr Thr Leu Pro Asp Val Leu Glu Asn Lys
      405              410              415
Cys Gly Tyr Lys Leu Cys Ile Tyr Gly Arg Asp Leu Leu Pro Gly Gln
      420              425              430
Asp Ala Ala Thr Val Val Glu Ser Ile Gln Asn Ser Arg Arg Gln
      435              440              445
Val Phe Val Leu Ala Pro His Met Met His Ser Lys Glu Phe Ala Tyr
      450              455              460
Glu Gln Glu Ile Ala Leu His Ser Ala Leu Ile Gln Asn Asn Ser Lys
 465              470              475              480
Val Ile Leu Ile Glu Met Glu Pro Met Gly Glu Ala Ser Arg Leu Gln
      485              490              495
Leu Gly Asp Leu Gln Asp Ser Leu Gln His Leu Val Lys Met Gln Gly
      500              505              510
Thr Ile Lys Trp Arg Glu Asp His Val Ala Asp Lys Gln Ser Leu Ser
      515              520              525
Ser Lys Phe Trp Lys His Val Arg Tyr Gln Met Pro Val Pro Lys Arg
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Pro Pro Lys Met Ala Ser Val Ala Ala Pro Leu Ser Gly Lys Val Cys
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Leu Asp Leu Lys His Phe
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<210> 5  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <221> mRNA  
 <222> (1)...(1614)  
 <223> vacuolar ATPase

<400> 5

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cactagtgat cttagatcat gtaaagtctc ccagatatgc tgagattgtc cacttgacat      240
taccagatgg cacaaaaaga agtgggcaag ttctagaagt tagtggctcc aaagctgtgg      300
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tcctgacaga tatgagttct tacgctgaag cacttcgaga ggtttcagct gccagggaag      960
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<210> 6  
 <211> 511  
 <212> PRT  
 <213> Rattus norvegicus

<220>  
 <221> PEPTIDE  
 <222> (1)...(511)  
 <223> vacuolar ATPase

<400> 6

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			20					25					30		
Leu	Ala	Val	Ser	Arg	Asn	Tyr	Leu	Ser	Gln	Pro	Arg	Leu	Thr	Tyr	Lys
		35					40					45			
Thr	Val	Ser	Gly	Val	Asn	Gly	Pro	Leu	Val	Ile	Leu	Asp	His	Val	Lys
		50				55					60				
Phe	Pro	Arg	Tyr	Ala	Glu	Ile	Val	His	Leu	Thr	Leu	Pro	Asp	Gly	Thr
					70					75				80	
Lys	Arg	Ser	Gly	Gln	Val	Leu	Glu	Val	Ser	Gly	Ser	Lys	Ala	Val	Val
				85					90					95	
Gln	Val	Phe	Glu	Gly	Thr	Ser	Gly	Ile	Asp	Ala	Lys	Lys	Thr	Ser	Cys
			100					105					110		
Glu	Phe	Thr	Gly	Asp	Ile	Leu	Arg	Thr	Pro	Val	Ser	Glu	Asp	Met	Leu
		115					120					125			
Gly	Arg	Val	Phe	Asn	Gly	Ser	Gly	Lys	Pro	Ile	Asp	Arg	Gly	Pro	Val
		130					135					140			
Val	Leu	Ala	Glu	Asp	Phe	Leu	Asp	Ile	Met	Gly	Gln	Pro	Ile	Asn	Pro
					150					155				160	
Gln	Cys	Arg	Ile	Tyr	Pro	Glu	Glu	Met	Ile	Gln	Thr	Gly	Ile	Ser	Ala
				165						170				175	
Ile	Asp	Gly	Met	Asn	Ser	Ile	Ala	Arg	Gly	Gln	Lys	Ile	Pro	Ile	Phe
			180					185					190		
Ser	Ala	Ala	Gly	Leu	Pro	His	Asn	Glu	Ile	Ala	Ala	Gln	Ile	Cys	Arg
		195					200					205			
Gln	Ala	Gly	Leu	Val	Lys	Lys	Ser	Lys	Asp	Val	Val	Asp	Tyr	Ser	Glu
		210				215						220			
Glu	Asn	Phe	Ala	Ile	Val	Phe	Ala	Ala	Met	Gly	Val	Asn	Met	Glu	Thr
				230						235				240	
Ala	Arg	Phe	Phe	Lys	Ser	Asp	Phe	Glu	Glu	Asn	Gly	Ser	Met	Asp	Asn
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Val	Cys	Leu	Phe	Leu	Asn	Leu	Ala	Asn	Asp	Pro	Thr	Ile	Glu	Arg	Ile
			260					265					270		
Ile	Thr	Pro	Arg	Leu	Ala	Leu	Thr	Thr	Ala	Glu	Phe	Leu	Ala	Tyr	Gln
		275					280						285		

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 Glu Ala Leu Arg Glu Val Ser Ala Ala Arg Glu Glu Val Pro Gly Arg  
 305 310 315 320  
 Arg Gly Phe Pro Gly Tyr Met Tyr Thr Asp Leu Ala Thr Ile Tyr Glu  
 325 330 335  
 Arg Ala Gly Arg Val Glu Gly Arg Asn Gly Ser Ile Thr Gln Ile Pro  
 340 345 350  
 Ile Leu Thr Met Pro Asn Asp Asp Ile Thr His Pro Ile Pro Asp Leu  
 355 360 365  
 Thr Gly Tyr Ile Thr Glu Gly Gln Ile Tyr Val Asp Arg Gln Leu His  
 370 375 380  
 Asn Arg Gln Ile Tyr Pro Pro Ile Asn Val Leu Pro Ser Leu Ser Arg  
 385 390 395 400  
 Leu Met Lys Ser Ala Ile Gly Glu Gly Met Thr Arg Lys Asp His Ala  
 405 410 415  
 Asp Val Ser Asn Gln Leu Tyr Ala Cys Tyr Ala Ile Gly Lys Asp Val  
 420 425 430  
 Gln Ala Met Lys Ala Val Val Gly Glu Glu Ala Leu Thr Ser Asp Asp  
 435 440 445  
 Leu Leu Tyr Leu Glu Phe Leu Gln Lys Phe Glu Lys Asn Phe Ile Thr  
 450 455 460  
 Gln Gly Pro Tyr Glu Asn Arg Thr Val Tyr Glu Thr Leu Asp Ile Gly  
 465 470 475 480  
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<210> 7  
 <211> 2747  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <221> mRNA  
 <222> (1)...(2747)  
 <223> glycoprotein CD44

<400> 7

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cgagtataga	acacaccaag	aagacatoga	tgccctcaa	attatagatg	aggatgtcac	660
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<210> 8  
 <211> 364  
 <212> PRT  
 <213> Rattus norvegicus

<220>  
 <221> PEPTIDE  
 <222> (1)...(364)  
 <223> glycoprotein CD44

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20          25          30
Tyr Ala Gly Val Phe His Val Glu Lys Asn Gly Arg Tyr Ser Ile Ser
35          40          45
Arg Thr Glu Ala Ala Asp Leu Cys Glu Ala Phe Asn Thr Thr Leu Pro
50          55          60
Thr Met Ala Gln Met Glu Leu Ala Leu Arg Lys Gly Phe Glu Thr Cys
65          70          75          80
Arg Tyr Gly Phe Ile Glu Gly His Val Val Ile Pro Arg Ile His Pro
85          90          95
Asn Ala Ile Cys Ala Ala Asn Asn Thr Gly Val Tyr Ile Leu Leu Ala
100         105         110
Ser Asn Thr Ser His Tyr Asp Thr Tyr Cys Phe Asn Ala Ser Ala Pro
115         120         125

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Leu Glu Glu Asp Cys Thr Ser Val Thr Asp Leu Pro Asn Ser Phe Asp
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Gly Pro Val Thr Ile Thr Ile Val Asn Arg Asp Gly Thr Arg Tyr Ser
145          150          155          160
Lys Lys Gly Glu Tyr Arg Thr His Gln Glu Asp Ile Asp Ala Ser Asn
          165          170          175
Ile Ile Asp Glu Asp Val Ser Ser Gly Ser Thr Ile Glu Lys Ser Thr
          180          185          190
Pro Glu Gly Tyr Ile Leu His Thr Asp Leu Pro Thr Ser Gln Pro Thr
          195          200          205
Gly Asp Arg Asp Asp Ala Phe Ile Gly Ser Thr Leu Ala Thr Ser
          210          215          220
Asp Gly Asp Ser Ser Met Asp Pro Arg Gly Gly Phe Asp Thr Val Thr
225          230          235          240
His Gly Ser Glu Leu Ala Gly His Ser Ser Gly Asn Gln Asp Ser Gly
          245          250          255
Val Thr Thr Thr Ser Gly Pro Ala Arg Arg Pro Gln Ile Pro Glu Trp
          260          265          270
Leu Ile Ile Leu Ala Ser Leu Leu Ala Leu Ala Leu Ile Leu Ala Val
          275          280          285
Cys Ile Ala Val Asn Ser Arg Arg Arg Cys Gly Gln Lys Lys Lys Leu
          290          295          300
Val Ile Asn Ser Gly Asn Gly Thr Val Glu Asp Arg Lys Pro Ser Glu
305          310          315          320
Leu Asn Gly Glu Ala Ser Lys Ser Gln Glu Met Val His Leu Val Asn
          325          330          335
Lys Glu Pro Thr Glu Thr Pro Asp Gln Phe Met Thr Ala Asp Glu Thr
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Arg Asn Leu Gln Ser Val Asp Met Lys Ile Gly Val
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<210> 9
<211> 5028
<212> DNA
<213> Rattus norvegicus

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<220>
<221> mRNA
<222> (1)...(5028)
<223> Lot-1

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<400> 9

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gaaataccac accatgctgg gctacaagag gcacatggcc ctgcattcgg ccagcagcgg      900

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<223> Bovine vacuolar H+-ATPase
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<223> human vacuolar H+-ATPase

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<220>  
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 <222> (1)...(2820)  
 <223> human vacuolar H<sup>+</sup>-ATPase (56,000 subunit -H057)

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<213> Mus musculus

<220>

<221> mRNA

<222> (1)...(3975)

<223> mouse ZAC1 zinc finger protein

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